

Figure 1A

Genomic nucleotide sequence of an AHAS gene from *Arabidopsis thaliana* (SEQ ID NO:1)

CTTGTATCCTTCTCTTAACCAATAAAAAAGAAAGAAAGATCAATTTGATAAAATTTCTCAGC
CACAAATTCTACATTTAGGTTTTAGCATATCGAAGGCTCAATCACAAATACAATAGATAGAC
TAGAGATTCCAGCGTCACGTGAGTTTTATCTATAAATAAAGGACCAAAAATCAAATCCCGAG
GGCATTTTTCGTAATCCAACATAAAACCCTTAAACTTCAAGTCTCATTTTTAAACAAATCATG
TTCACAAGTCTCTTCTTCTTCTCTGTTTCTCTATCTCTTGCTCATCTTTCTCCTGAACCATG
GCGGCGTAAACAACAACAACAACATCTTCTTCGATCTCCTTCTCCACCAAAACCATCTCC
TTCCTCCCAAAATCACCATTACCAATCTCCAGATTCTCCCTCCCATTCTCCCTAAACCCCA
AGAAATCATCCTCCTCCTCCCGCCGCGCGGTATCAAATCCAGCTCTCCCTCCTCCATCTCC
GCCGTGCTCAACACAACCACCAATGTCACAACCACTCCCTCTCCAACCAAAACCTACCAAACC
CGAAACATTATCTCCCGATTTCGCTCCAGATCAACCCCGCAAAGGCGCTGATATCCTCGTCG
AAGCTTTAGAACGTCAAGGCGTAGAAACCGTATTTCGCTTACCCTGGAGGTGCATCAATGGAG
ATTCACCAAGCCTTAACCCGCTCTTCTCAATCCGTAACGTCCTTCTCGTCACGAACAAGG
AGGTGTATTTCGAGCAGAAAGGATACGCTCGATCCTCAGGTAAACCAGGTATCTGTATAGCCA
CTTCAGGTCCCGGAGCTACAAATCTCGTTAGCGGATTAGCCGATGCGTTGTTAGATAGTGT
CCTCTTGTAGCAATCACAGGACAAGTCCCTCGTCGATGATTGGTACAGATGCGTTTCAAGA
GACTCCGATTGTTGAGGTAACGCGTTTCGATTACGAAGCATAACTATCTTGTGTAGGATGTTG
AAGATATCCCTAGGATTATTGAGGAAGCTTTCTTTTAGCTACTTCTGGTAGACCTGGACCT
GTTTTGGTTGATTCTTAAAGATATTCAACAACAGCTTTCGATTCCCTAATTGGGAACAGGC
TATGAGATTACCTGGTTATATGTCTAGGATGCCTAAACCTCCGGAAGATTCTCATTGAGC
AGATTGTTAGGTTGATTCTGAGTCTAAGAAGCCTGTGTTGTATGTTGGTGGTGGTTGTTG
AATTCTAGCGATGAATTGGGTAGGTTTGTGAGCTTACGGGGATCCCTGTTGCGAGTACGTT
GATGGGGCTGGGATCTTATCCTTGTGATGATGAGTTGTCGTTACATATGCTTGGGAATGCATG
GGACTGTGTATGCAAATTACGCTGTGGAGCATAGTGATTTGTTGTTGGCGTTTGGGGTAAGG
TTTGATGATCGTGTACCGGGTAAGCTTGAGGCTTTTGCTAGTAGGGCTAAGATTGTTTCATAT
TGATATTGACTCGGCTGAGATTGGGAAGAATAAGACTCCTCATGTGTCTGTGTGTGGTGATG
TTAAGCTGGCTTTTGCAAGGGATGAATAAGGTTCTTGAGAACCAGCGGAGGAGCTTAAGCTT
GATTTTGGAGTTTGGAGGAATGAGTTGAACGTACAGAAACAGAAGTTTCCGTTGAGCTTTAA
GACGTTTGGGGAAGCTATTCCCTCCACAGTATGCGATTAAAGGTCCTTGATGAGTTGACTGATG
GAAAAGCCATAATAAGTACTGGTGTGCGGCAACATCAAATGTGGGCGGCGCAGTTCTACAAT
TACAAGAAACCAAGGCAGTGGCTATCATCAGGAGGCCCTGGAGCTATGGGATTTGGACTTCC
TGCTGCGATTGGAGCGTCTGTTGCTAACCTGATGCGATAGTTGTGGATATTGACGGAGATG
GAAGCTTTTATAATGAATGTGCAAGAGCTAGCCACTATTCGTGTAGAGAATCTTCCAGTGAAG
GTACTTTTATTAAACAACCAGCATCTTGGCATGGTTATGCAATGGGAAGATCGGTTCTACAA
AGCTAACCGAGCTCACACATTTCTCGGGGATCCGGCTCAGGAGGACGAGATATTCCCGAACA
TGTTGCTGTTTGCAGCAGCTTGCGGGATTCCAGCGGCGAGGGTGACAAAGAAAGCAGATCTC
CGAGAAGCTATTAGACAATGCTGGATACACCAGGACCTTACCTGTTGGATGTGATTTGTCC
GCACCAAGAACATGTGTTGCCGATGATCCCGAATGGTGGCACTTTCAACGATGTCATAACGG
AAGGAGATGGCCGGATTAAATACTGAGAGATGAAACCGGTGATTATCAGAACCTTTTATGGT
CTTTGTAT

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Figure 1B

Coding nucleotide sequence of an AHAS gene from *Arabidopsis thaliana* (SEQ ID NO:2)

ATGGCGGCGGCAACAACAACAACAACATCTTCTTCGATCTCCTTCTCCACCAAACCATC
TCCTTCTCTCTCCAAATCACCATTACCAATCTCCAGATTCTCCCTCCCATCTCTCCCTAAACC
CCAACAAATCATCTCTCTCTCTCCCGCCGCGCGGTATCAAATCCAGCTCTCCCTCTCCATC
TCCGCGGTGCTCAACACAACCACCAATGTCAACAACCACTCCCTCTCCAACCAAACCTACCAA
ACCCGAAACATTATCTCTCCGATTTCGCTCCAGATCAACCCCGCAAAGGCGCTGATATCCTCG
TCGAAGCTTTAGAACGTCAAGGCGTAGAAACCGTATTTCGCTTACCCTGGAGGTGCATCAATG
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GTTCTCTTGTAGCAATCACAGGACAAGTCCCTCGTCGTATGATTGGTACAGATGCGTTTCA
AGAGACTCCGATTGTTGAGGTAACGCGTTTCGATTACGAAGCATAACTATCTTGTATGGATG
TTGAAGATATCCCTAGGATTATTGAGGAAGCTTTCTTTTAGTACTTCTGGTAGACCTGGA
CCTGTTTTGTTGATGTTCTCTAAAGATATTCAACAACAGCTTTCGATTCCCTAATTGGGAACA
GGCTATGAGATTACCTGGTTATATGTCTAGGATGCCTAAACCTCCGGAAGATTCTCATTG
AGCAGATTGTTAGGTTGATTTCTGAGTCTAAGAAGCCTGTGTTGTATGTTGGTGGTGGTTGT
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GTTGATGGGGCTGGGATCTTATCCTTGTGATGATGAGTTGTTCGTTACATATGCTTGGAATGC
ATGGGACTGTGTATGCAAATTACGCTGTGGAGCATAGTGATTTGTTGTTGGCGTTTGGGGTA
AGGTTTGTATGATCGTGTACGGGTAAGCTTGAGGCTTTTGCTAGTAGGGCTAAGATTGTTCA
TATTGATATTGACTCGGCTGAGATTGGGAAGAATAAGACTCCTCATGTGTCTGTGTGTTG
ATGTTAAGCTGGCTTTGCAAGGGATGAATAAGGTTCTTGAGAACCGAGCGGAGGAGCTTAAG
CTTGATTTTGGAGTTTGGAGGAATGAGTTGAACGTACAGAAACAGAAGTTTCCGTTGAGCTT
TAAGACGTTTGGGGAAGCTATTCCTCCACAGTATGCGATTAAAGTCCTTGATGAGTTGACTG
ATGGAAAAGCCATAATAAGTACTGGTGTGCGGCAACATCAAATGTGGGCGGCGCAGTTCTAC
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TCCTGCTGCGATTGGAGCGTCTGTTGCTAACCTGATGCGATAGTTGTGGATATTGACGGAG
ATGGAAGCTTTATAATGAATGTGCAAGAGCTAGCCACTATTTCGTGTAGAGAATCTTCCAGTG
AAGGTACTTTTATTAAACAACCAGCATCTTGGCATGGTTATGCAATGGGAAGATCGGTTCTA
CAAAGCTAACCGAGCTCACACATTTCTCGGGGATCCGGCTCAGGAGGACGAGATATTCCTCGA
ACATGTTGCTGTTTGCAGCAGCTTGCGGGATTCCAGCGGCGAGGGTGACAAAGAAAGCAGAT
CTCCGAGAAGCTATTTCAGACAATGCTGGATACACCAGGACCTTACCTGTTGGATGTGATTTG
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CGGAAGGAGATGGCCGGATTAAATAC

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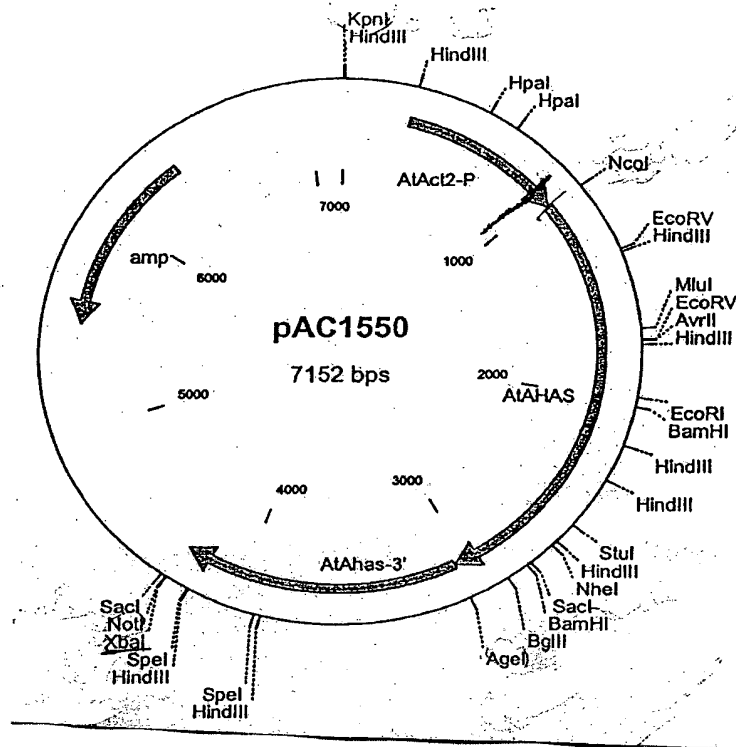
Figure 1C

Amino acid sequence of an AHAS gene from *Arabidopsis thaliana* (SEQ ID NO:3)

MAAATTTTTTSSSISFSTKPSPTSSSKSPLPISRFSLPFSLNPNKSSSSSRRRGIKSSSPSSIS
AVLNNTTNTVTTTPSPTKPTKPTFISRFAPDQPRKGADILVEALERQGVETVFAYPGG
ASMEIHQALTRSSSIRNVLP RHEQGGVFAAEGYARSSGKPGICIATSGPGATNLVSGL
ADALLDSVPLVAITGQVPRRMIGTDAFQETPIVEVTRSITKHNYLVMDVEDIPRIIEEAF
FLATSGRPGPVLVDVPKDIQQQLAIPNWEQAMRLPGYMSRMPKPPEDSHLEQIVRLIS
ESKKPVLYVGGGCLNSSDELGRFVELTGIPVASTLMGLGSYPCDDELSLHMLGMHGT
VYANYAVEHSDLLAFGVRFDDRVTGKLEAFASRAKIVHIDIDSAEIGKNKTPHVSVC
GDVKLALQGMNKVLENRAEELKLDFGVWRNELNVQKQKFPLSFKTFGEAIPPQYAI
KVLDELTDGKAIISTGVGQHQMWAAQFYNYKKPROWLSSGGLGAMGFGLPAAIGAS
VANPDAIVVDIDGDSFIMNVQELATIRVENLPVKVLLLNQHLGMVMQWEDRFYK
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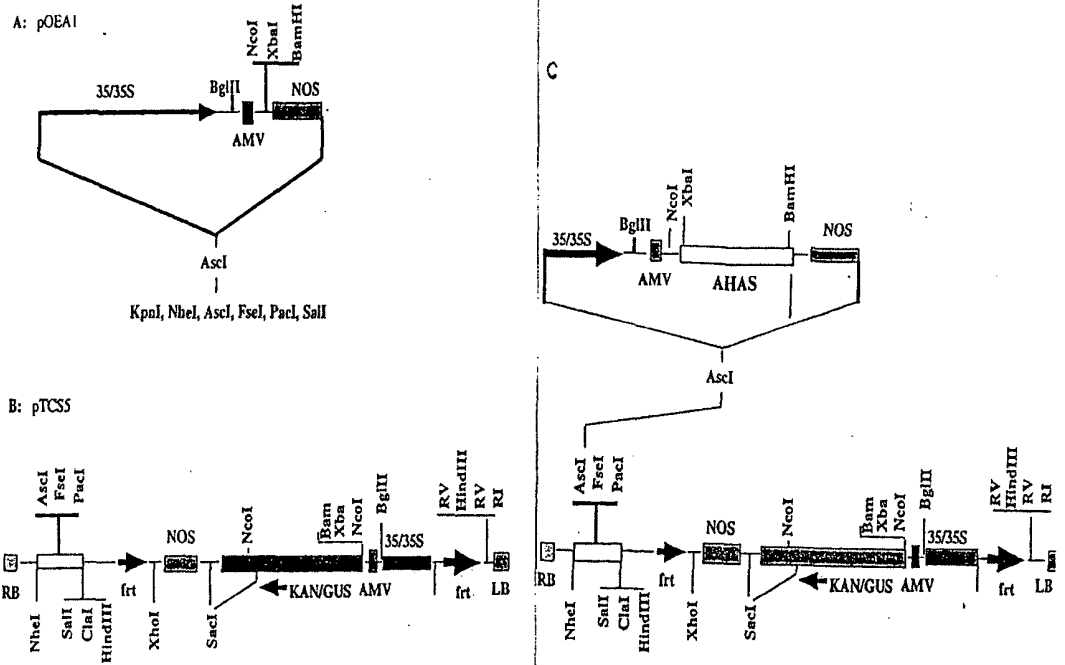
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Figure 2



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Figure 3



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